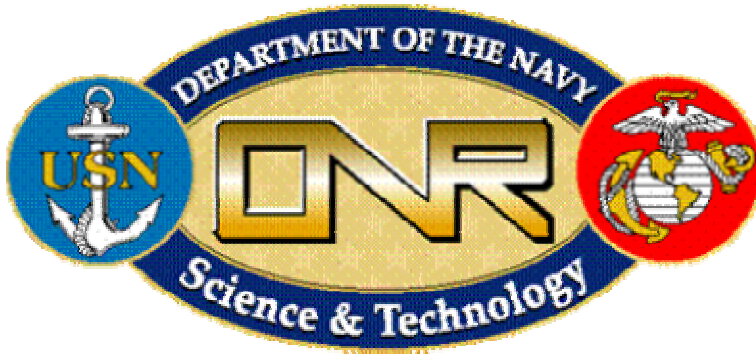

ONR BAA Announcement # 05-006



BROAD AGENCY ANNOUNCEMENT (BAA)

INTRODUCTION:

This publication constitutes a Broad Agency Announcement (BAA) as contemplated in Federal Acquisition Regulation (FAR) 6.102(d)(2). A formal Request for Proposals (RFP), solicitation, and/or additional information regarding this announcement will not be issued.

The Office of Naval Research (ONR) will not issue paper copies of this announcement. The ONR reserves the right to select for award all some or none of the proposals in response to this announcement. The ONR reserves the right to fund all, some or none of the proposals received under this BAA. ONR provides no funding for direct reimbursement of proposal development costs. Technical and cost proposals (or any other material) submitted in response to this BAA will not be returned. It is the policy of ONR to treat all proposals as sensitive competitive information and to disclose their contents only for the purposes of evaluation.

Awards will take the form of contracts. Therefore, proposals submitted as a result of this announcement will fall under the purview of the Federal Acquisition Regulation (FAR).

I. GENERAL INFORMATION

1. Agency Name -

Office of Naval Research,
Ballston Centre, Tower One
800 N. Quincy Street
Arlington, VA 22217-5660

Point of Contact:

Dr. Ignacio M. Perez,
Code 332
(703) 696-0688 // E-mail: Ignacio_Perez@onr.navy.mil

2. Research Opportunity Title - Aircraft Non Destructive Inspection Technologies for Heat Damage in Composites**3. Program Name - Total Ownership Cost Future Naval Capability****4. Research Opportunity Number - BAA 05-006****5. Response Date -**

Full Proposals: 1 March 2005, 2:00 p.m. EST

6. Research Opportunity Description -

The Office of Naval Research is soliciting proposals for development and transition of aircraft nondestructive inspection (NDI) technologies for detection/quantification of heat damage in composites designed to reduce operations and support cost without compromising fleet safety and readiness. The primary area of interest is to inspect/assess incipient damage in composites on aircraft components without removing paint during on-condition or scheduled periodic inspections.

The rapidly increasing inspection hours per flight hour can be ascribed to the detrimental impact of materials damage on aging aircraft structural components, a condition that has been widely recognized for years. Accordingly, there is a need for portable NDI technology that can be used on an operational aircraft in an uncontrolled environment and provides reliable and reproducible data that can be used to identify/assess heat damaged materials and is capable of performing measurements on aircraft in small compartments with limited access.

Application of this device must be as non-intrusive as possible, result in a significant reduction in inspection and processing time over current inspection methods, and have a false alarm rate approaching zero. The device should be easy to handle in normal field conditions. The data collected by this inspection device must enable technicians to interpret information, characterize the problem, and recommend proper maintenance actions.

7. Point(s) of Contact -

Questions of a technical nature shall be directed to the cognizant Technical Point of Contact, as specified below:

Science and Technology Point of Contact:

Dr. Ignacio M. Perez
Program Officer
Materials S&T
Code ONR 332
Office of Naval Research
800 N. Quincy Street
Arlington, VA 22217
Telephone Number: 703-696-0688
Facsimile Number: 703-696-0934
Email Address: Ignacio_Perez@onr.navy.mil

Questions of a business nature shall be directed to the cognizant Contract Specialist, as specified below:

Business Point of Contact:

Mr. Brian Murphy
Contract Specialist
Contract and Grant Award Division
Code ONR 254
Office of Naval Research
800 N. Quincy Street
Arlington, VA 22217
Telephone Number: 703-696-0030
Facsimile Number: 703-696-3365
Email Address: brian_murphy@onr.navy.mil

8. Instrument Type(s) -

Awards will take the form of contracts.

9. Catalog of Federal Domestic Assistance (CFDA) Numbers -

12.300

10. Catalog of Federal Domestic Assistance (CFDA) Titles -

DOD Basic and Applied Scientific Research

11. Other Information -

N/A

II. AWARD INFORMATION

Total Amount of Funding Available: \$1.4M (\$390K; \$430K; \$630K)

Anticipated Number of Awards: 1 award

Anticipated Period of Performance: 3 years

III. ELIGIBILITY INFORMATION

All potential offerors are eligible.

IV. APPLICATION AND SUBMISSION INFORMATION

1. Application and Submission Process -

Proposals submitted in response to this announcement should address the technology requirements and issues covered in this announcement. Each offeror should state in its proposal that it is submitted in response to BAA 05-006

2. Content and Format of Proposals

The proposals submitted under this BAA are expected to be unclassified. However, confidential/classified proposals are permitted. The Proposal submissions will be protected from unauthorized disclosure in accordance with FAR 15.207, applicable law, and DoD/DoN regulations. Offerors are expected to appropriately mark each page of their submission that contains proprietary information.

Proposal Format – Volume 1 - Technical and Volume 2 - Cost Proposal

- Paper Size – 8.5 x 11 inch paper
- Margins – 1” inch
- Spacing – single or double-spaced
- Font – Times New Roman, 12 point
- Number of Pages – Volume 1 is limited to no more than twenty (20) pages. There is no page limit for Volume II. Limitations within sections of the proposal are indicated in the individual descriptions shown below. The cover page, table of contents, and resumes are excluded from the page limitations. Full Proposals exceeding the page limit may not be evaluated.
- Copies – one (1) original, three (3) copies and one (1) electronic copy on a 3.5” Diskette or CD-ROM, (in Microsoft® Word or Excel 97 compatible or PDF format).

Proposal Content

Volume 1: Technical Proposal

- **Cover Page:** This should include the words

“Technical Proposal” and the following:

- 1) BAA number;
- 2) Title of Proposal;
- 3) Identity of prime Offeror and complete list of subcontractors, if applicable;
- 4) Technical contact (name, address, phone/fax, electronic mail address)
- 5) Administrative/business contact (name, address, phone/fax, electronic mail address) and;
- 6) Duration of effort (differentiate basic effort and options)

- **Table of Contents:**

- **Statement of Work:** A Statement of Work (SOW) clearly detailing the scope and objectives of the effort and the technical approach. It is anticipated that the proposed SOW will be incorporated as an attachment to the resultant award instrument. To this end, such proposals must include a severable self-standing SOW without any proprietary restrictions, which can be attached to the contract award. Include a detailed listing of the technical tasks/subtasks organized by year. The technical section shall provide a clear description of the products/ technologies being proposed and discuss:

- The offeror’s understanding of the need for non destructive inspection technologies being addressed.
- Objectives of the proposed effort.
- Technical issues to be resolved to accomplish objectives.
- The technical approach to resolve technical issues, to develop the products/technologies, and to achieve performance metrics.
- Technology transition and commercialization plan
- An assessment of advantages of offeror’s technical approach over existing capabilities.

- **Project Schedule and Milestones:** A summary of the schedule of events and milestones.

- **Assertion of Data Rights:** Include here a summary of any proprietary rights to pre-existing results, prototypes, or systems supporting and/or necessary for the use of the research, results, and/or prototype. Any data rights asserted in other parts of the proposal that would impact the rights in this section must be cross-referenced. If there are proprietary rights, the Offeror must explain how

these affect its ability to deliver research data, subsystems and toolkits for integration. Additionally, Offerors must explain how the program goals are achievable in light of these proprietary limitations. If there are no claims of proprietary rights in pre-existing data, this section shall consist of a statement to that effect.

- **Deliverables:** A detailed description of the results and products to be delivered.
- **Management Approach:** A discussion of the overall approach to the management of this effort, including brief discussions of the total organization, use of personnel; project/function/subcontractor relationships; government research interfaces; and planning, scheduling and control practice. Identify which personnel and subcontractors (if any) will be involved. Submit one-page curricula vita for principal technical investigator, project manager and other key personnel. Include a description of the facilities that are required for the proposed effort with a description of any Government Furnished Equipment/ Hardware/ Software/ Information required, by version and/or configuration.

VOLUME 2: Cost Proposal

The Cost Proposal shall consist of a cover page and two parts, Part 1 will provide a detailed cost breakdown of all costs by cost category by calendar or Gov't fiscal year and Part 2 will provide a cost breakdown by task/sub-task corresponding to the task numbers in the proposed Statement of Work.

Cover Page: The use of the SF 1411 is optional. The words "Cost Proposal" should appear on the cover page in addition to the following information:

- BAA number
- Title of Proposal
- Identity of prime Offeror and complete list of subcontractors, if applicable
- Technical contact (name, address, phone/fax, electronic mail address)
- Administrative/business contact (name, address, phone/fax, electronic mail address) and
- Duration of effort (separately identify basic effort and any proposed options)

Part 1: Detailed breakdown of all costs by cost category by calendar or Gov't fiscal year:

- Direct Labor – Individual labor category or person, with associated labor hours and unburdened direct labor rates
- Indirect Costs – Fringe Benefits, Overhead, G&A, COM, etc. (Must show base amount and rate)
- Travel – Number of trips, destination, duration, etc.
- Subcontract – A cost proposal as detailed as the Offeror's cost proposal will be required to be submitted by the subcontractor. The subcontractor's cost

proposal can be provided in a sealed envelope with the Offeror's cost proposal or will be requested from the subcontractor at a later date

- Consultant – Provide consultant agreement or other document which verifies the proposed loaded daily/hourly rate
- Materials should be specifically itemized with costs or estimated costs. An explanation of any estimating factors, including their derivation and application, shall be provided. Include a brief description of the Offeror's procurement method to be used (Competition, engineering estimate, market survey, etc.)
- Other Directs Costs, particularly any proposed items of equipment or facilities. Equipment and facilities generally must be furnished by the contractor/recipient. (Justifications must be provided when Government funding for such items is sought). Include a brief description of the Offeror's procurement method to be used (Competition, engineering estimate, market survey, etc.)
- Fee/Profit including fee percentage.

Part 2 : Cost breakdown by task/sub-task using the same task numbers in the Statement of Work.

3. Significant Dates and Times -

Anticipated Schedule of Events *	
Event	Date
Full Proposals Due Date	March 1, 2005 // 2:00 p.m. EST
Notification of Selection for Award	May 10, 2005

- **These dates are estimates as of the date of this announcement.**

4. Submission of Late Proposals –

Any proposal, modification, or revision, that is received at the designated Government office after the exact time specified for receipt of proposals is “late” and will not be considered unless it is received before award is made, the contracting officer determines that accepting the late proposal would not unduly delay the acquisition and

- (a) If it was transmitted through an electronic commerce method authorized by the announcement, it was received at the initial point of entry to the Government infrastructure not later than 5:00 p.m. one working day prior to the date specified for receipt of proposals; or
- (b) There is acceptable evidence to establish that it was received at the Government installation designated for receipt of proposals and was under the Government's control prior to the time set for receipt of proposals; or
- (c) It was the only proposal received.

However, a late modification of an otherwise timely and successful proposal, that makes its terms more favorable to the Government will be considered at any time it is received and may be accepted.

Acceptable evidence to establish the time or receipt at the Government installation includes the time/date stamp of that installation on the proposal wrapper, other documentary evidence of receipt maintained by the installation, or oral testimony or statements of Government personnel.

If an emergency or unanticipated event interrupts normal Government processes so that proposals cannot be received at the Government office designated for receipt of proposals by the exact time specified in the announcement, and urgent Government requirements preclude amendment of the announcement closing date, the time specified for receipt of proposals will be deemed to be extended to the same time of day specified in the announcement on the first work day on which normal Government processes resume.

The contracting officer must promptly notify any offeror if its proposal, modifications, or revision was received late and must inform the offeror whether its proposal will be considered.

5. Address for the Submission of Proposals –

Office of Naval Research
Ballston Center Tower One
Attn: Dr. Ignacio M. Perez, ONR code 332
Room 502-8
800 North Quincy Street
Arlington, VA 22217-5660

Telephone Number: 703-696-0688

NOTE: PROPOSALS SENT BY FAX OR E-MAIL WILL NOT BE CONSIDERED.

V. EVALUATION INFORMATION

1. Evaluation Criteria –

Proposals will be evaluated using the following criteria listed in decreasing order of importance:

- Overall scientific and technical merit.
- Understanding of the problem and its impact on aircraft, current technical/scientific practices, and risk associated with developing affordable/successful solutions to requirements.
- Technical approach.
- Transition/commercialization plan: potential for commercialization and transition

- to the fleet at the completion of project.
- Qualifications, capabilities and experience of the proposed principal technical investigator, other key personnel, and subcontractors.
 - Adequacy of equipment and facilities.
 - Budgetary cost (and availability of funds, if cost sharing) and realism of schedule.

Special emphasis in the proposal should be given to the technical approach, commercialization and transition. To aid in the evaluation, per the relevant criteria set forth above, the following information should be submitted:

- Relevant technical background including the proposed scope of effort and a statement of work (SOW) with specific requirements to be addressed and tasks to be performed.
- Detailed technical approach and rationale for that approach.
- Description of technologies, products, and performance metrics.
- Description of transition plan and expected technology transfer path.
- Credentials of the principal investigator and other project personnel.
- Details of any formal teaming agreements required to execute the program.

Large Business - for a proposed award to a large businesses, the socio-economic merits of the proposal will be evaluated based on the extent of the Offeror's commitment in providing meaningful subcontracting opportunities for small businesses, small disadvantaged businesses, woman-owned small businesses, HUBZone small businesses, veteran-owned small businesses, service disabled veteran-owned small businesses, historically black colleges and universities, and minority institutions.

Industry-Academia Partnering – ONR highly encourages partnering between industry and academia with a view toward speeding the incorporation of new science and technology into fielded systems. Proposals that utilize industry-academic partnering which enhances the development of novel S&T advances will be given favorable consideration

Industry-Government Partnering – ONR highly encourages partnering between industry and Government with a view toward speeding the incorporation of new science and technology into fielded systems. Proposals that utilize industry-Government partnering which enhances the development of novel S&T advances will be given favorable consideration

2. Evaluation Panel -

The panel will consist of subject matter experts from DOD.

VI. AWARD ADMINISTRATION INFORMATION

1. Administrative Requirements –

- The North American Industry Classification System (NAICS) code – The North American Industry Classification System (NAICS) code for this announcement is 541710 with a small business size standard of 500 employees.
- CCR - Successful Offerors not already registered in the Central Contractor Registry (CCR) will be required to register in CCR prior to award of any grant, contract, cooperative agreement, or other transaction agreement. Information on CCR registration is available at <http://www.onr.navy.mil/02/ccr.htm>.
- Certifications – Proposals should be accompanied by a completed certification package which can be accessed on the ONR Home Page at Contracts & Grants. The certification package is entitled, "[Representations and Certifications for Contracts](#)."
- Subcontracting Plans – A successful contract proposal that exceeds \$500,000, submitted by other than a small business concern, must include a Small Business Subcontracting Plan in accordance with FAR 52.219-9, prior to contract award.

2. Reporting -

The following deliverables, primarily in contractor format, are anticipated as necessary. However, specific deliverables should be proposed by each Offeror and finalized with the contracting agent:

- Technical and Financial Progress Reports
- Monthly Progress Reports
- Presentation Material
- Other Documents or Reports
- Final Report

VII. OTHER INFORMATION

1. Government Property/Government Furnished Equipment (GFE) and Facilities

Each proposer must provide a very specific description of any equipment/hardware that it needs to acquire to perform the work. This description should indicate whether or not each particular piece of equipment/hardware will be included as part of a deliverable item under the resulting award. Also, this description should identify the component, nomenclature, and configuration of the equipment/hardware that it proposes to purchase for this effort. It is the Government's desire to have the contractors purchase the equipment/hardware for deliverable items under their contract. The purchase on a direct reimbursement basis of special test equipment or other equipment that is not included in a deliverable item will be evaluated for allowability on a case-by-case basis. Maximum

use of Government integration, test, and experiment facilities is encouraged in each of the Offeror's proposals.

Government research facilities and operational military units are available and should be considered as potential government furnished equipment/facilities. These facilities and resources are of high value and some are in constant demand by multiple programs. It is unlikely that all facilities would be used for the Total Ownership Cost Future Naval Capability program. The use of these facilities and resources will be negotiated as the program unfolds. Offerors should explain which of these facilities they recommend.

2. Use of Animals and Human Subjects in Research

If animals are to be utilized in the research effort proposed, the Offeror must complete a DoD Animal Use Protocol with supporting documentation (copies of AAALAC accreditation and /or NIH assurance, IACUC approval, research literature database searches, and the two most recent USDA inspection reports) prior to award. Similarly, for any proposal that involves the experimental use of human subjects, the Offeror must obtain approval from the Offeror's committee for protection of human subjects (normally referred to as an Institutional Review Board, (IRB)). The Offeror must also provide NIH (OHRP/DHHS) documentation of a Federal Wide Assurance that covers the proposed human subjects study. If the Offeror does not have a Federal Wide Assurance, a DoD Single Project Assurance for that work must be completed prior to award. Please see <http://www.onr.navy.mil/02/howto.htm> for further information.

3. Department of Defense High Performance Computing Program

The DoD High Performance Computing Program (HPCMP) furnishes the DoD S & T and DT & E communities with use-access to very powerful high performance computing systems. Awardees of ONR contracts, grants, and assistance instruments may be eligible to use HPCMP assets in support of their funded activities if ONR Program Officer approval is obtained and if security/screening requirements are favorably completed. Additional information and an application may be found at <http://www.hpcmo.hpc.mil/>.